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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,564	11/24/2003	Charles Francis Haight	0918.0223C	1879
27896 7590 01/17/2007 EDELL, SHAPIRO & FINNAN, LLC 1901 RESEARCH BOULEVARD			EXAMINER	
			HENEGHAN, MATTHEW E	
SUITE 400 ROCKVILLE, MD 20850			ART UNIT	PAPER NUMBER
KOOK VIBBB,			2134	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/17/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/718,564	HAIGHT, CHARLES FRANCIS				
Office Action Summary	Examiner	Art Unit				
·	Matthew Heneghan	2134				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		·				
1) Responsive to communication(s) filed on 24 No	ovember 2003.					
·= ·						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-23 is/are pending in the application.	4) Claim(s) 1-23 is/are pending in the application.					
4a) Of the above claim(s) is/are withdray	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-23</u> is/are rejected.	6)⊠ Claim(s) <u>1-23</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	ſ.					
10)⊠ The drawing(s) filed on <u>16 December 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date 11/24/03,11/15/06. 6) Other:						

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DETAILED ACTION

1. Claims 1-23 have been examined.

Information Disclosure Statement

2. The following Information Disclosure Statements in the instant application have been fully considered:

IDS filed 24 November 2003.

IDS filed 15 November 2006.

Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The term "validating the data" in claim 12 is not supported in the specification. It is being presumed that this term is as per the limitation of claim 16.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the

description: items 1310, 1450, and 1650 in figure 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

5. Claim 13 is objected to because of the following informalities:

Claim 13 recites the limitation "the validating of the data" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim. It is being presumed that claim 13 is dependent upon claim 12.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 5 and 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The IC5232 data type is not well-known in the art, and the disclosure gives no quidance as to its nature.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 8-11 and 20-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "at traffic rates" is a relative term which renders the claims indefinite.

The term "at traffic rates" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is being presumed that the term "at traffic rates" teaches to any suitable speed, depending upon the implementation; therefore, any invention that would render the inventions of the

respective base claims is inherently capable of performing at some traffic rate. For purposes of the prior art search, these claims are considered to stand or fall with their respective base claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1, 6-14, 16, 17, and 20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,052,786 to Tsuchida.

Tsuchida determines the header and payload in a transmission, disassembling the cells (packets) into headers and payloads (see column 8, lines 45-47). The payload only is transformed into cipher text, which inherently involves the use of an encrypting algorithm (see column 8, lines 62-65). The cells are then reassembled and transmitted, with headers being forwarded directly to reassembly without cryptographic processing (see column 9, lines 17-27).

Regarding claims 12, 13, 16, and 17, Tsuchida discloses that encryption is selectively done based upon the logical channel (i.e. the virtual channel) of each respective cell (see column 16, lines 7-12). Since this can only be determined by

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examining the VCI field in the header (see column 6, lines 55-61), any validation must be done in this manner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 3-5, 18, 19, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,052,786 to Tsuchida.

Base claims 1 and 14 each recite the processing of data that includes a header, which is separately processed from the data to be encrypted, which is shown by Tsuchida, as described above. Tsuchida does not disclose the processing of particular types of data payloads; it is noted that the "header" being recited in claims 3, 4, 18, and 19 cannot be construed as being the headers recited in the base claims, due to the lack of a reference to them.

These differences are only found in the nonfunctional descriptive material and are not functionally involved in the steps recited. The data processing steps would be performed the same regardless of the data. Thus, this descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see In re

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Gulack, 703 F.2d 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); In re Lowry, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to pass data comprising IP headers, internal IP headers, speech data, Ethernet data, or IC5253 data, because such data does not functionally relate to the steps in the method claimed and because the subjective interpretation of the data does not patentably distinguish the claimed invention.

10. Claims 2 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,052,786 to Tsuchida as applied to claims 1 and 14 above, and further in view of U.S. Patent No. 6,542,844 to Hanna.

Tsuchida discloses an implementation using an LSI (see column 17,lines 36-44), but does not specifically disclose the use of an FPGA.

Hanna discloses the use of FPGAs in applications that could also use VLSIs (i.e. LSIs), and suggests that this allows for quick design and modification turn-around and reconfigurability (see column 1, lines 38-48).

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Tsuchida by implanting it using an FPGA, as disclosed by Hanna, as this allows for quick design and modification turn-around and reconfigurability.

Conclusion

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11. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Matthew E. Heneghan, whose telephone number is

(571) 272-3834. The examiner can normally be reached on Monday-Friday from 8:30

AM - 4:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gilberto Barron, can be reached at (571) 272-3799.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria, VA 22313-1450

Or faxed to:

(571) 273-3800

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (571) 272-

2100.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

MEH

January 5, 2007

Matthew Heneghan, USPTO Art Unit 2134

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